

## **HOLOGRAPHIC RECORDING TECHNIQUES USING REFERENCE ZONE OF SPATIAL LIGHT MODULATOR**

### **ABSTRACT**

5           The invention is directed to holographic recording techniques that generate a data  
encoded object beam and a reference beam using a spatial light modulator of the holographic  
recording system. An input light source, e.g., comprising laser light conditioned by optical  
elements, can be used to illuminate the spatial light modulator. Different portions of the  
spatial light modulator are used to create the data encoded object beam and the reference  
10   beam, which are then made to interfere in a holographic medium to record a hologram.